PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE REPLACEMENT OF PRESENCE AND SET BACK DETECTION ON WESTBOUND MD 108 AT THE INTERSECTION OF MD 108 (OLD ANNAPOLIS ROAD) AND PHELPS LUCK DRIVE/ CENTRE PARK DRIVE IN HOWARD COUNTY. MD 108 WILL BE WIDENED TO PROVIDE A CONTINUOUS AUXILIARY RIGHT TURN LANE IN THE WESTBOUND DIRECTION OF MD 108 BETWEEN THE INTERSECTIONS OF PHELPS LUCK DRIVE/ CENTRE PARK DRIVE AND THE EXIT TO HOWARD HIGH SCHOOL. ALL EXISTING TRAFFIC SIGNAL HEADS WILL REMAIN. MD 108 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR MD 108. THE SIDE STREET SPLIT PHASING AND RIGHT TURN OVERLAP FOR SOUTHBOUND CENTRE PARK DRIVE WILL REMAIN. THE CONCURRENT MAINLINE PEDESTRIAN PHASE ACROSS THE NORTH LEG AND THE ALTERNATE PEDESTRIAN PHASE ACROSS THE EAST LEG WILL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CONTROLLER, LOOP DETECTOR AMPLIFIERS, AND ASSOCIATED HARNESSES SHALL REMAIN.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: 301-624-8140

Ms. Andrea Abend
Assistant District Engineer - Utility
Phone: 301-624-8115

Mr. Ray Johnson
Assistant District Engineer - Maintenance
Phone: 301-624-8105

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Edward Rodenhizer
Chief, SHA Signal Shop
Phone: 410-787-7652

The Power Company Representative is:
Baltimore Gas and Electric Company
7317 Parkway Drive South
Hanover, MD 21076
Phone: 410-859-9062

Colonial Pipeline Company
Phone: 1-800-926-2728

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

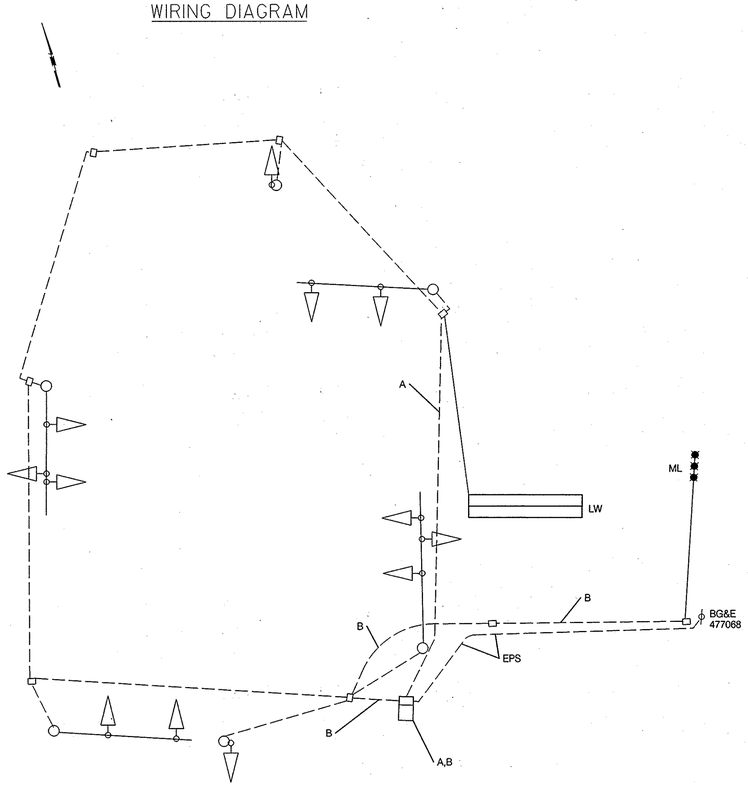
ITEM NO	QUANTITY	DESCRIPTION
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR		

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
585620	390 LF	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
585624	45 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
805011	15 LF	1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE
805160	10 LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810555	1 EA	MICROLOOP PROBE, 1000 FOOT LEAD-IN CABLE
861104	120 LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
862101	500 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG)
862102	180 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

WIRING DIAGRAM



A — ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)

B — MICROLOOP PROBE, 1000 FOOT LEAD-IN CABLE

LW — LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG)

ML — MICROLOOP PROBE SET

EPS — EXISTING POWER SOURCE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
PHASE 1 & 5	~~G~~	~~G~~	R	~~G~~	~~G~~	R	R	R	R	R	R	~~G~~	DW	DW	DW	DW	
PHASE 1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 1 & 6 OR 2 & 5 OR 2 & 6																
PHASE 1 & 6	~~G~~ G	~~G~~ G	G	R	R	R	R	R	R	R	R	~~G~~	DW	DW	DW	DW	
PHASE 1 CHANGE	~~Y~~ G	~~Y~~ G	G	R	R	R	R	R	R	R	R	~~Y~~	DW	DW	DW	DW	
PHASE 2 & 5	R	R	R	~~G~~ G	~~G~~ G	G	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 5 CHANGE	R	R	R	~~Y~~ G	~~Y~~ G	G	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	W	W	DW	DW	
PHASE 2 & 6 PED. CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW	
PHASE 2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 3	R	R	R	R	R	R	~~G~~ G	~~G~~ G	G	R	R	R	DW	DW	DW	DW	
PHASE 3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	
PHASE 3 ALT.	R	R	R	R	R	R	~~G~~ G	~~G~~ G	G	R	R	R	DW	DW	W	W	
PHASE 3 ALT. PED. CLEARANCE	R	R	R	R	R	R	~~G~~ G	~~G~~ G	G	R	R	R	DW	DW	FL/DW	FL/DW	
PHASE 3 ALT. CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	
PHASE 4	R	R	R	R	R	R	R	R	R	~~G~~ G	~~G~~ G	G	DW	DW	DW	DW	
PHASE 4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	

STV Incorporated
engineers /architects /planners /scientists /construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

BY: WEAVERCC

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 108 (OLD ANNAPOLIS ROAD) AND
PHELPS LUCK DRIVE/ CENTRE PARK DRIVE

GENERAL INFORMATION

SCALE NONE DATE 52006 CONTRACT NO. HO3215176

DESIGNED BY MCG
DRAWN BY MCG
CHECKED BY BAB
F.A.P. NO.

COUNTY HOWARD
LOGMILE 13010811.79
T.I.M.S. NO. H157
TOD NO.

DRAWING NO. TS-1795I-GI OF | SHEET NO. 10 OF 12

PLOTTED: FRIDAY, JUNE 16, 2006 AT 01:32 PM
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